cally, *i. e.* the Cover was of the ſame Piece with the Matrix.

17. Mr. *Carlan*, ſworn Surgeon; having obſerv'd in a Man a Swelling as big as a Pullets Egg, upon the Place call'd *Fontanella*, and cover'd with Hair like the reſt of the Head, apply'd to it *Emplaſtrum de Betonica*, by order of M. *Dufaur* Profeſſor of Surgery, and the Swelling diſappear'd.

III. *The Anatomical Hiſtory of the Leech. By Sieur* Francois Poûpart. *Taken from the* Journal des Savans, *of the 22th of* July, 1697.

ITS Upper Lip is ſtretched out into a Point, and falls upon the Under, which is Round like a Crecent, and ſhorter. Its Throat on the Inſide is covered with a great many White Muſcles, about Five or Six Lines long, as big as a ſmall Thread, and lying parallel one to another, along its Body.

When the Leech applies its Mouth to the Fleſh of any Animal, all theſe Muſcles contracting themſelves, ſhe ſucks it with ſo great Violence and Greedineſs, that ſhe makes it enter in Form of a little Pap into its Throat. So that all the Effect of Suction terminating in a very little Space, of neceſſity the Fleſh muſt break in that Place: For you muſt not believe that the Leech pierces it as with a Needle, as many others write.

There is ſeen at the End of its Tail, a little flat thing, exactly round the Border of which, is elevated far above the Tail, and all round it, which it applies ſo uni-

uniformly upon the Bodies to which it faſtens it ſelf, that it touches them in all their Parts; and then drawing up a little the Middle of this Flat Part, without taking off the Edges, ſhe makes of it, as it were, a little Balm which leaves a Cavity in its Middle. This excellent Glue faſtens ſo ſtrongly the Tail of the Leech, that 'tis a hard matter to pull it away, without making ſome Rent, eſpecially if you draw it perpendicularly from the Surface on which the Animal is faſtned. But that which ſurpriſes at the firſt, is that faſtens it more ſtrongly to the Bodies moſt ſmooth, ſuch as are fine *Venice* Glaſſes, upon which Flies have ſome trouble to creep, than on the more rough Surfaces, becauſe it touches the Poliſht Bodies in a greater Number of Parts. Add to this a little Oily Glue which it ſpreads about, and with which it fills exactly the Inequalities of the Surfaces. The Leech has always recourſe to this little Inſtrument for faſtning its Body, to the End it may not be ſuſpended in the Air, while it draws its Nouriſhment by Suction, or elſe that it be not carried away with the Current of the Water, while it carries its Head here and there for ſeeking its Nouriſhment.

Its Gut goes in a Streight Line, from the Mouth to the *Anus*, as big as a Gooſe's Quill, all along, ſet with a great Number of little Valves ſome of which make a perfect Circle with a Hole in the Middle, and others a Half Moon, ſome are ſhapt Spiral ways, and there is a great one of this Sort near the Tail, Faſhion'd like a Heart, which leaves only a very little Hole, near which is found much Yellow Fat, which fills all the Cavity of the Inteſtine to have an Inch. Two little Inteſtines or Appendixes, each half an Inch long, and of the Bigneſs of the Feather of a little Birds Wing, pierce the great Gut in which they are open at one end, and ſhut at the other; all this Structure

makes it evident why the Inteſtine, which makes no Revolutions, and yet reſerves ordinarily but liquid Aliments, does yet retain them to a perfect Concoction and retains them ſo long.

A Nerf the Bigneſs of a Horſe Hair, all Black, hard to break, having Knots at a Diſtance, one from the other, beginning at the Mouth of the Animal, paſſes over the Parts that ſerve for Generation in the Male, 'tis faſtned in a ſtreight Line all along the Gut above, ends at the little Circle in the end of the Tail, and in the Way ſends out Branches to the Right and Left Side, which go from every Knot. 'Tis very probable that by this Canal, the Animal Spirits run abundantly, which gives ſo great Briskneſs to this Reptile, which make it ply in ſo many Faſhions, Swim ſo ſwiftly, ſo properly, and Suck with ſuch Greedineſs.

All we have ſaid hitherto, is nothing in Compariſon of what we have to ſay further of its Beauties. The Leech is Hermafrodite; the Parts of the Male deſtinated to Generation, are plac'd where the Neck ought to be. The Yard, which is about Two Inches long, is White, Round, Hollow, and Griſtly; a part of the Yard which is always in the Body, is a Sheath about Fifteen Parts of an Inch, long, as big as a little Birds Quill, covered with a fine Membrane, which faſtens it ſtrongly to the Belly, round about a little Hole given the Leech for putting out and in his Yard when he pleaſes, and not for Breathing, as the Ancients ſaid. The other Parts of the Yard which comes out Nine or Ten Parts of an Inch, is the Bigneſs of a ſowing Thred, and the End of it for the Length of Two Parts of an Inch, is bigger than the reſt. All the Yard is hollow, and has in its Cavity a White Muſcle as big as a Hair, faſtned only to the Root and Head, all the reſt being at Liberty. 'Tis with this Muſcle that the Animal draws the

the Yard into its Sheath, which any one may try by cutting it at the Root, to draw out this Muſcle with his Nails.

On every ſide of the Root of the Yard, is a little White Webb, Flat, Oval, about Two or Three Lines long, reſembling Small Guts twiſted about, with a Cartilaginous Body, as big as a double Thred, and Two Lines long, faſtens to the Root of the Yard, in which it's probable it carries the Prolifick Matter. A little above the Root of the Yard between theſe Two Webs there is a little griſtly Globule, Two Lines Long, White, Hard, Hollow, Round, Oval, Sharp, inwardly cover'd with a Membrane Wrinkled and full of a Milky Liquor. There is at the Head of this Globule a ſmall Web, like to an Epidimis, whoſe little Canal of the ſame Piece with it, creeps over the Globul and is faſtned at the point of it, and above the Epididimis are Two Glands exactly Round, each as big as a Grain of Millet. I am much inclin'd to think this little Globul to be a Teſticle, conſidering its wonderful Furniture.

All along every ſide of the Inteſtine is a White Canal, or *Ovarium*, of the Bigneſs of a ſmall twiſted Thred, and folded in a Thouſand Manners, to which are faſtned with a Tail, as it were the Grain of a Raiſin to their Grape, many little Globules exactly Round, as big as a little Pea, full of a Milky Juice, and ſome little White Eggs, griſtly perfectly round, as big as a Grain of Millet. hard, which are hardly broken, making a Noiſe, and full of a White Matter.

There is in the Inteſtine towards the End, a great Valve faſhioned like a Heart, with Two little Bags, where begin 1000 ſmall Channels made of fine yellow Fat, which fill the Cavity of the Inteſtine for half an Inch. It's probable that theſe Paſſages of Fat receive the Prolifick

Liquor, to conduct into the *Ovarium*, by ways unknown to me, chooſing rather to publiſh my Weakneſs, than the leaſt Error in the World.

IV. Of a Venomous Scratch with the Tooth of a Porpos, its Symptoms and Cure. By Dr. *Martin Liſter*, Fellow of the College of Phyſicians and R. *S.*

FORTE ex Diſſectione Delphini, ante dies Tres minimùm mortui, ad modum leviter digitum vulneravi ab internâ parte, at citra Sanguinem, ſcilicet ſimplici dentis raſurâ. Nihil autem mali inde ſenſi ad quartum uſq; diem: quo tempore cum quodam livore digitus paululum intumuit ad Articulum: malum indies ſerpebat, adeo ut intra alios quatuor Dies digitos duos infeciſſet; tertiuſq; tandem digitus male ſe habuit. Plurima ex conſilio Chirurgorum adhibui, at parum profuerunt; jam manus correpta eſt, dolorque carpum invaſit, ex hoc autem fomento primùm ſtetit. [℞ *aq. ſpermatis ranarum* ʒvi, *Boli Armen.* ʒis. *f. Vitrioli albi* ʒiiii. *m.*] *calide bis quotidie admotum eſt. Item interdum alio modo* [℞ *Vitrioli albi combuſti, Boli Armeniac an.* ʒiiii. *Camph.* ʒi. *aq. communis* ℔ viii. *m. f. Collyrium.*] *Deinde* Nutrito *impoſito, & ſuperinjecto Emplaſtro ex bolo &* Diapalma, *convalui ex hoc inuſitato ac improviſo malo. Præter livorem autem, qui ſatis venenum indicabat, moleſtus ac odioſus quidam pruritus, an igniculus dicam, me dies noctesq; vehementer angebat: cuticulam partium correptarum ex toto perdidi: digiti autem ad vires ſuas non niſi poſt aliquot Menſes reſtituti ſunt.*

V. *Part*